

NIOSH PPT / NPPTL

Vision & Mission

The **VISION** is to be the leading provider of quality, relevant, and timely PPT research, training, and evaluation.

The **MISSION** of the PPT program is to prevent work-related injury, illness and death by advancing the state of knowledge and application of personal protective technologies (PPT).



National Institute for Occupational Safety and Health (NIOSH)



PPT Program National Personal Protective Technology Laboratory (NPPTL)



**Les Boord
Director
NPPTL**

Pittsburgh, PA 15236

March 3, 2009



Stakeholder Meeting Objective

To facilitate stakeholder communications by:

- Sharing project information
- Encouraging information exchange
- Obtaining program input
- Requesting program / meeting evaluation

Meeting Format

- Presentations / Posters
 - NIOSH Divisions / Labs
 - Extramural Research
- Participants
 - 150 (approximate) Registered to Attend
 - 34 Live Link Registrants
 - Europe
 - South America

Meeting Agenda

7:15 – 8:30 AM	Poster Room Opens for Viewing
8:00 – 8:30 AM	Registration
8:30 – 8:50 AM	Welcome and Overview of PPT Program
8:50 – 9:00 AM	Overview of Grant Opportunities
9:00 – 9:30 AM	PPT Program Evaluations and Surveillance
9:30 – 9:45 AM	Presentation PPE Use in Agriculture and Healthcare
9:45 – 10:45 AM	Poster Session
10:45 – 11:00 AM	Reduce Exposure to Dermal Hazards
11:00 – 11:15 AM	Novel Protective Garments
11:15 – 11:30 AM	Stored Thermal Energy
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11:45 – 12:00	PPE Overview for Fall Protection
12:00 – 12:15 PM	PPE for Hearing Protection
12:15 – 1:15 PM	Lunch

Meeting Agenda

1:15 – 1:45 PM Reduce Exposure to Inhalation Hazards

1:45 – 2:00 PM Presentation: Escape Respirators for First Responders

2:00 – 2:15 PM Presentation: Factors Affecting Respirator Tolerance

2:15 – 2:30 PM Presentation: Respirator Protection against Bioaerosols

2:30 – 2:45 PM Presentation: Respirator Fit Technology

2:45 – 3:45 PM Poster Session

3:45 – 4:15 PM Open Mike

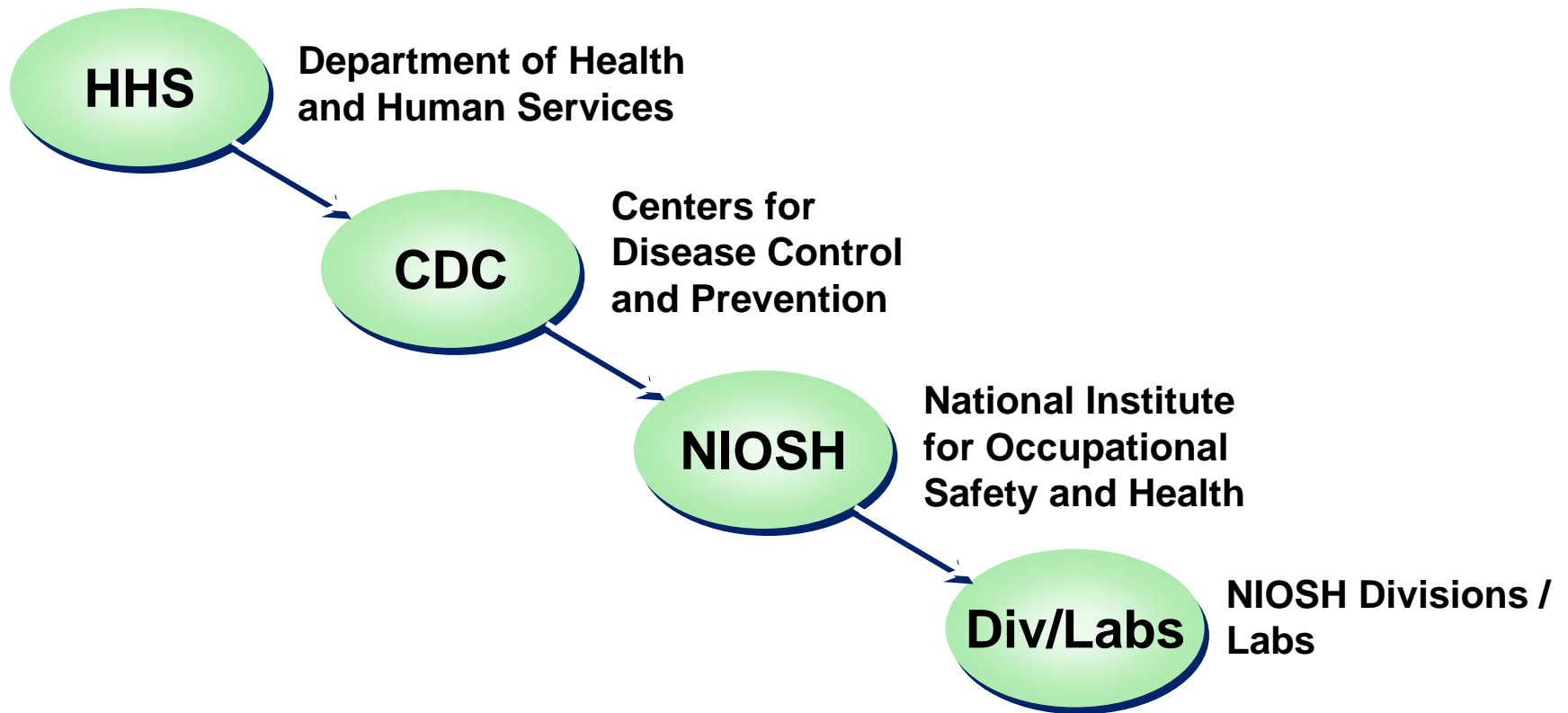
4:15 – 4:30 PM Wrap-Up

4:30 – 5:00 PM Closing Poster Session

PPT Program Overview

- NIOSH Overview
- PPT Program Overview

Agency Hierarchy



NIOSH Divisions & Laboratories



- Office of the Director, NIOSH
- Office of Extramural Programs
- Pittsburgh Research Laboratory (PRL)
- National Personal Protective Technology Laboratory (NPPTL)

- Division of Respiratory Disease Studies (DRDS)
- Division of Safety Research (DSR)
- Health Effects Laboratory Division (HELD)
- Education and Information Division (EID)
- Division of Applied Research and Technology (DART)
- Division of Surveillance Hazard Evaluation and Field Studies (DSHEFS)
- Office of Compensation Analysis and Support (OCAS)
- Research to Practice (r2p)
- Spokane Research Laboratory

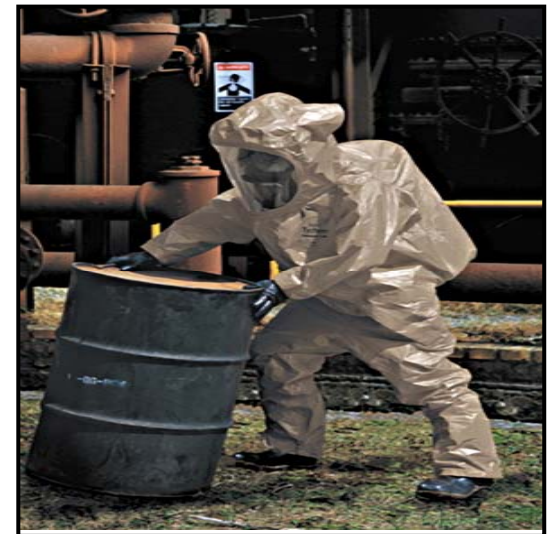
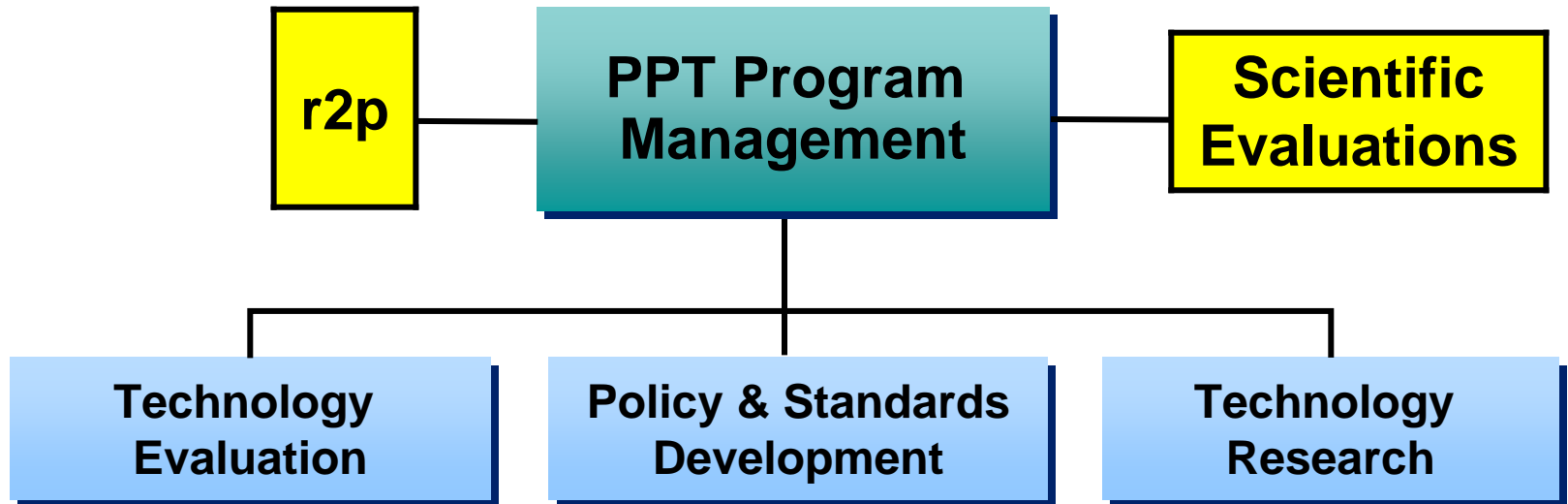
Industry Sectors	Industry Cross Sector Programs	
<ul style="list-style-type: none">• Agriculture, Forestry, and Fishing• Construction• Healthcare and Social Assistance• Mining• Manufacturing• Services• Transportation, Warehousing, and Utilities• Wholesale and Retail Trade	<ul style="list-style-type: none">• Authoritative Recommendations• Cancer, Reproductive, and Cardiovascular Diseases• Communications and Information Dissemination• Emergency Preparedness and Response• Global Collaborations• Health Hazard Evaluation (HHE)• Hearing Loss Prevention• Immune and Dermal Diseases• Musculoskeletal Disorders• Prevention Through Design• Personal Protective Technology	<ul style="list-style-type: none">• Radiation Dose Reconstruction• Respiratory Diseases• Training Grants• Traumatic Injury• Work Organization and Stress-Related Disorders• Economics• Exposure Assessment• Engineering Controls• Work Life Initiative• Occupational Health Disparities• Small Business Assistance and Outreach• Surveillance• Nanotechnology

PPT Program

Goals / Actions / Tactics

- Strategic Goal 1
 - **Reduce Exposure to Inhalation Hazards**
- Strategic Goal 2
 - **Reduce Exposure to Dermal Hazards**
- Strategic Goal 3
 - **Reduce Exposure to Injury Hazards**
- Intermediate Goals and Actions with each Strategic Goal
- Tactics
 - Scientific Program & Project Evaluations
 - r2p → communications & outreach
 - Comprehensive research
 - PPT standards development
 - Respirator certification and PPT evaluation activities

PPT Program Activities



Scientific Evaluations = Review & Assessment

Build In Quality

Evaluations to address all technical aspects of:

- Program formulation and development
- Program implementation
- Program outputs

Outputs

**Formulation
and
Development**

Implementation

Scientific Evaluations = Review & Assessment

Build In Quality

Scientific Review

- National Academies Scientific Reviews
- Scientific Information Product Peer Review
- Scientific Proposal and Protocol Peer Reviews

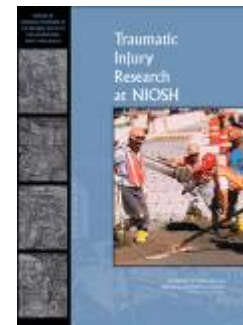
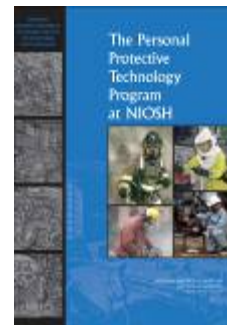
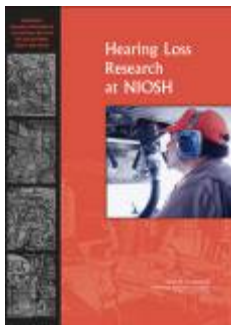
Customer Satisfaction Assessment

- Customer Satisfaction Surveys (CSS)
- Customer Focus Groups
- Meeting Evaluations



National Academies Evaluation

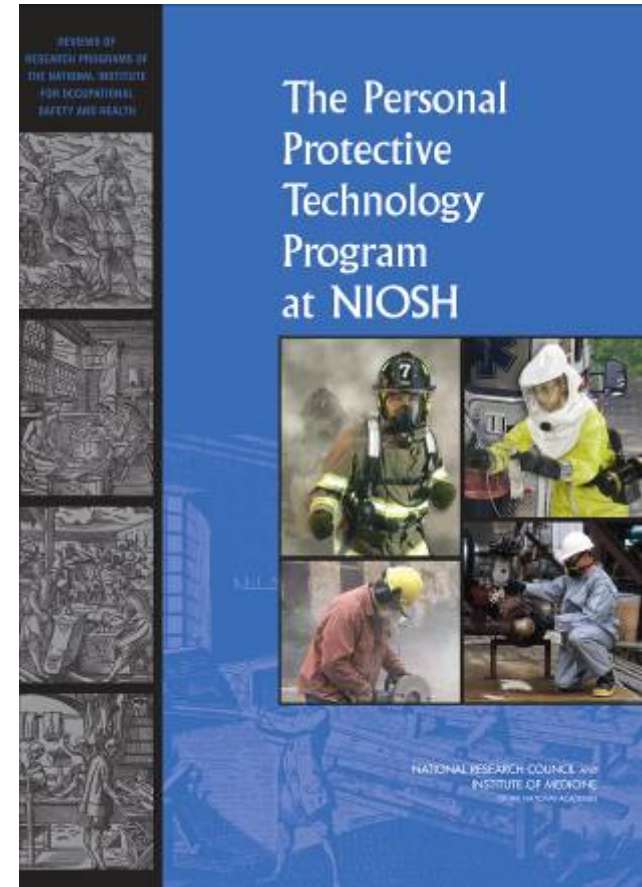
- NIOSH requested the National Academies (NA) evaluate NIOSH programs with respect to impact, relevance, and future directions
- PPT Program is one of 8 NIOSH Programs reviewed
 - 3 Sector Programs Reviewed
 - 5 Cross Sector Programs Reviewed



National Academies Evaluation

The Personal Protective Technology Program

- Quantitative Results
- Program Relevance & Program Impact
- Program Recommendations



Quantitative Scoring Criteria for Relevance

- 5 = The program's work is in **high-priority** subject areas and NIOSH is **significantly engaged** in appropriate transfer activities for completed projects or reported results.
- 4 = The program's work is in **priority** subject areas and NIOSH is **engaged** in appropriate transfer activities for completed projects or reported results.
- 3 = The program's work is in **high-priority or priority** subject areas, but NIOSH is **not engaged** in appropriate transfer activities; **OR** the focus is on **lesser priorities**, but NIOSH is **engaged** in appropriate transfer activities.
- 2 = The program is focused on **lesser priorities**, and NIOSH is **not engaged** in or planning some appropriate transfer activities.
- 1 = The program is **not focused** on priorities and NIOSH is **not engaged** in transfer activities.

Quantitative Scoring Criteria for Impact

- 5 = The program has made **major contribution(s)** to worker health and safety on the basis of end outcomes or well-accepted intermediate outcomes.
- 4 = The program has made **some contributions** to end outcomes or well-accepted intermediate outcomes.
- 3 = The program's activities are ongoing, and outputs are produced that are **likely to result in improvements** in worker health and safety (with explanation of why not rated higher). Well-accepted outcomes have not been recorded.
- 2 = The program's activities are ongoing, and outputs are produced that **may result in new knowledge or technology**, but only **limited application is expected**. Well-accepted outcomes have not been recorded.
- 1 = Activities and outputs **do not result** in OR are **not likely** to have application.

PPT Program Relevance

Score = 4

PPT program is working in priority areas and is engaged in transferring its research into improved products and processes.

PPT Program Impact

Score = 4

The PPT program has made some meaningful contributions to both intermediate outcomes and, to a lesser extent, end outcomes.

Five Recommendations for Consideration

NIOSH PPT/NPPTL Program

Value added Services: Relevance and Impact



Mine Escape:

- Technology Workshops
- Respirator Research
 - Docking / Hybrid
- Escape Respirator Std.
- Respirator Field Eval.
- Refuge Chamber Eval.
- Respirator Certification
- MSHA Collaboration



Nanotechnology:

- Research
 - Respirator Filtration
 - Protective Clothing
- Workplace Guidance
- Respirator Certification
- OSHA Collaboration

CBRN (Terrorism):

- CBRN PPT Research
 - Threat Analysis
 - CWA Agent Testing
 - CWA Agent Simulant
 - Turnout Gear
- Respirator Standards
- Respirator Certification
- Ensemble Guidance
- OSHA Collaboration



Pandemic:

- Research
- National Academies Studies
- Standards
 - Total Inward Leakage
- Respirator Certification
- OSHA / FDA Collaboration



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Visit Us at: <http://www.cdc.gov/niosh/npptl/default.html>

Disclaimer: The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.

Thank you